

INTERNATIONAL SEARCH REPORT

PCT/IL 03/00218

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K31/6615 A61K31/665 A61K31/664

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
AA X	WO 00 57865 A (YEDA RESEARCH AND DEVELOPMENT CO LTD) 5 October 2000 (2000-10-05) the whole document	1-14
AB X	SHINITZKY M ET AL: "Induction of intracellular signalling by cyclic glycerophosphates and their deoxa analogues" EUROPEAN JOURNAL OF BIOCHEMISTRY, vol. 267, 2000, pages 2547-54, XP000965121 cited in the application compounds I-VI	1,6-9, 11-14
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

17 June 2003

Date of mailing of the international search report

30/06/2003

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

PCT/IL 03/00218

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

AC

AD

AE

AF

AG

AH

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>LAVEY B J ET AL: "Catalytic antibody mediated hydrolysis of paraoxon" JOURNAL OF ORGANIC CHEMISTRY, vol. 61, no. 21, 18 October 1996 (1996-10-18), pages 7633-6, XP002244436 ISSN: 0022-3263 compounds 7 & 8</p>	1,2
X	<p>LAVEY B J ET AL: "Antibody catalyzed hydrolysis of a phosphotriester" BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, OXFORD, GB, vol. 6, no. 13, 9 July 1996 (1996-07-09), pages 1523-1524, XP004175745 ISSN: 0960-894X compounds 2 & 6</p>	1,2
X	<p>JONES, A. S. ET AL: "Structure of two isomeric 1,3,2-dioxaphosphorinanes" JOURNAL OF ORGANIC CHEMISTRY, vol. 51, no. 22, 31 October 1986 (1986-10-31), pages 4310-11, XP002244437 ISSN: 0022-3263 compounds 3 & 4</p>	1
X	<p>HAMOR T A : "Structure of 5-hydroxy-2-methoxy-1,3,2(lamda)5-dioxaphosphacyclohexane 2-oxide" ACTA CRYSTALLOGRAPHICA, vol. C42, 1986, pages 1462-3, XP009011042 the whole document</p>	1
X	<p>GERLT, JOHN A. ET AL: "Conformational properties of 5-alkoxy and 5-alkyl substituted trimethylen phosphates in solution" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol. 102, no. 5, 27 February 1980 (1980-02-27), pages 1665-70, XP002244439 page 1666, column 1</p>	1,3
X	<p>GERLT, JOHN A. ET AL: "Thermochemical identification of the structural factors responsible for the thermodynamic instability of 3',5'-cyclic nucleotides" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol. 102, no. 5, 17 February 1980 (1980-02-17), pages 1655-60, XP002244440 5-methoxytrimethylenephosphoric acid</p>	1,3
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INTERNATIONAL SEARCH REPORT

PCT/IL 03/00218

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
AI X	GERLT, JOHN A. ET AL: "Crystal and molecular structure of 5-ethoxytrimethylenephosphoric acid" JOURNAL OF ORGANIC CHEMISTRY, vol. 45, no. 7, 28 March 1980 (1980-03-28), pages 1282-6, XP002244441 the whole document	1,3
AJ X	PENNEY, C. L. ET AL: "Phenyl phosphorodichloridate in the synthesis of cyclic phosphate diester of biological interest" CANADIAN JOURNAL OF CHEMISTRY, vol. 56, no. 18, 1978, pages 2396-404, XP000949271 ISSN: 0008-4042 tables 1,2	1,3
AK X	BARAN, JOHN S. ET AL: "Displacement reactions of cyclic sulfites and phosphates by salts of weak acids applicable to the synthesis of phospholipids and other natural substances" JOURNAL OF ORGANIC CHEMISTRY, vol. 42, no. 13, 24 June 1977 (1977-06-24), pages 2260-4, XP002244442 compounds 5 & 6	1
AL X	BUCHNEA, DMYTRO: "Synthesis of sn-glycerol-cyclic-phosphodiester isomers. I" LIPIDS, vol. 8, no. 5, 1973, pages 289-94, XP009011040 compounds III & VII	1
AM X	DENNEY, DONALD B. ET AL: "Preparation and chemistry of 2,6,7-trioxa-1-phosphabicyclo[2.2.1]heptane" PHOSPHORUS AND THE RELATED GROUP V ELEMENTS, vol. 2, no. 5-6, 1973, pages 245-8, XP001157410 compounds 3 & 4	1,2

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INTERNATIONAL SEARCH REPORT

PCT/IL 03/00218

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
AN X	AYRES D C ET AL: "THE ORGANIC CHEMISTRY OF PHOSPHORUS. PART V. THE ESTER-INTERCHANGE REACTION BETWEEN TRIPHENYL PHOSPHITE AND GLYCOLS" JOURNAL OF THE CHEMICAL SOCIETY, CHEMICAL SOCIETY. LETCHWORTH, GB, 1957, pages 1109-1114, XP000946300 ISSN: 0368-1769 compound VII	1
AG A	CLARKE N G ET AL: "Alkaline O->N-transacylation. A new method for the quantitative deacylation of phospholipids" BIOCHEMICAL JOURNAL, vol. 195, no. 1, 1 April 1981 (1981-04-01), pages 301-6, XP001021068 cited in the application the whole document	1-14
AP A	TYUNOSHIN UKITA ET AL: "ORGANIC PHOSPHATES I. SYNTHESIS OF 1,2-DIOL CYCLIC PHOSPHATES" PHARMACEUTICAL BULLETIN, PHARMACEUTICAL SOCIETY OF JAPAN, TOKYO,, JP, vol. 5, no. 2, 1957, pages 121-126, XP000949388 ISSN: 0369-9471 compound I	1-14

INTERNATIONAL SEARCH REPORT

PCT/IL 03/00218

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0057865	A	05-10-2000	AU 3451700 A	16-10-2000
			BR 0009296 A	18-12-2001
			CA 2368597 A1	05-10-2000
			CN 1348375 T	08-05-2002
			EP 1162959 A2	19-12-2001
			WO 0057865 A2	05-10-2000
			JP 2002540146 T	26-11-2002